4.4 Scatter Plots and Lines of Fit
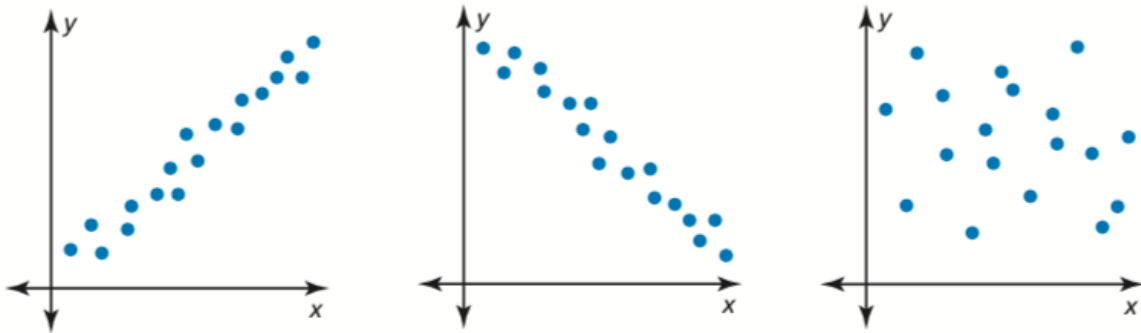
What is a scatter plot?

A *scatter plot* is a graph that shows the relationship between two data sets.
- The two data sets are graphed as ordered pairs.
- Scatter plots can show trend in the data.

Example 1: Identifying correlations between Data Sets

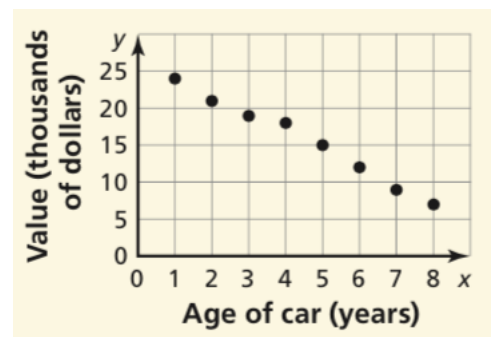A Correlation is a relationship between data sets.

Example 2:
Make a scatter plot of the data. Tell whether the data show a
positive, negative, or no correlation.

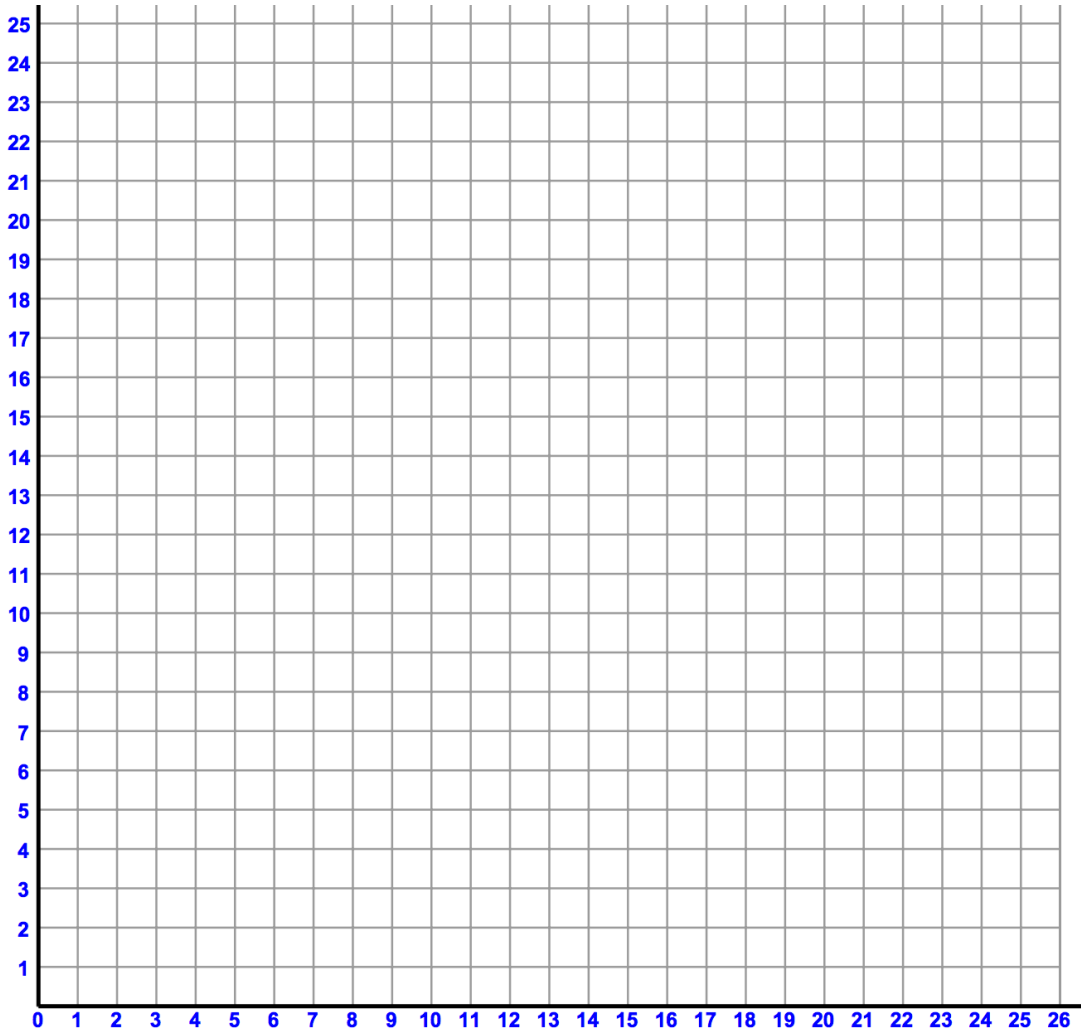| Temperature (°F), x	82	78	68	87	75	71	92	84
Attendees (thousands), y	4.5	4.0	1.7	5.5	3.8	2.9	4.7	5.3

Solution

Example 3: Finding a line of fit

Graph your data on a scatter plot. Analyze the correlation. Interpret the slope and y-intercept of the line of fit.

Week, x	1	2	3	4	5	6	7	8
Sales (millions), y	$19	$15	$13	$11	$10	$8	$7	$5

Classwork / Homework
3-6, 8, 9-10, 14, 17, 22